

Title (en)
INDUCTION HEATING POWER SUPPLY APPARATUS

Title (de)
STROMVERSORGUNGSVORRICHTUNG FÜR INDUKTIONSHEIZUNG

Title (fr)
APPAREIL D'ALIMENTATION ÉLECTRIQUE POUR CHAUFFAGE PAR INDUCTION

Publication
EP 3348117 A1 20180718 (EN)

Application
EP 16770376 A 20160908

Priority
• JP 2015177757 A 20150909
• JP 2016004105 W 20160908

Abstract (en)
[origin: WO2017043088A1] An induction heating power supply apparatus includes a smoothing section to smooth pulsating current of DC power output from a DC power supply section, and an inverter to convert the DC power smoothed by the smoothing section to AC power. The smoothing section includes a pair of bus bars connected to the inverter and a capacitor connected to the pair of bus bars. Each of the bus bars has an external surface extending in a current flow direction, the external surface including a flat face having a larger surface dimension than another face of the external surface in a direction perpendicular to the current flow direction. The bus bars are arranged in a layered manner such that the flat faces of the bus bars are opposed to each other and such that an insulator is sandwiched between the flat faces of the bus bars.

IPC 8 full level
H05B 6/04 (2006.01); **H02M 7/42** (2006.01)

CPC (source: EP KR US)
H02M 1/32 (2013.01 - KR); **H02M 7/003** (2013.01 - KR); **H02M 7/5387** (2013.01 - EP KR US); **H05B 6/04** (2013.01 - EP KR US)

Citation (search report)
See references of WO 2017043088A1

Designated contracting state (EPC)
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Designated extension state (EPC)
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DOCDB simple family (publication)
WO 2017043088 A1 20170316; CN 108029161 A 20180511; CN 108029161 B 20210820; EP 3348117 A1 20180718; EP 3348117 B1 20201104; JP 2017055557 A 20170316; JP 6482438 B2 20190313; KR 102617435 B1 20231226; KR 20180050661 A 20180515; KR 20230066489 A 20230515; MX 2018002897 A 20180618; US 10973090 B2 20210406; US 2019008001 A1 20190103

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JP 2016004105 W 20160908; CN 201680052496 A 20160908; EP 16770376 A 20160908; JP 2015177757 A 20150909; KR 20187006703 A 20160908; KR 20237015264 A 20160908; MX 2018002897 A 20160908; US 201615747634 A 20160908